

I. Amendments to the Specification

Please replace the paragraph on page 3, line 11 with the following paragraph:

FIG. 7 is a close-up of an alternate embodiment of the hydrocarbon collecting and measuring element of the present invention showing chambers having an octagonal shape; and

Please replace the paragraph starting on page 3, line 14 with the following paragraph:

FIG. 8 is a perspective view of the hydrocarbon collecting and measuring element of FIG 1 positioned in an air intake tube; and

Please insert the following paragraph before the heading "Detailed Description of the Preferred Embodiments of the Invention":

FIG. 9 is a table showing exemplary values of resistance, measured in volts, compared to the percentage of hydrocarbon saturation of the element.

Please replace the paragraph starting on page 5, line 23 with the following paragraph:

The preferred embodiment of the present invention also includes a means for detecting the level of hydrocarbons in the airflow. Referring to FIGS. 1-4 and 8, the means for detecting the level of hydrocarbons in the air flow is shown as a plurality of wires 18 mounted to the element 10. These wires 18 are preferably molded to the element 10, but they could also be connected in any manner that allows the element 10 to conduct an electric charge, such as through the use of conductive epoxy. The wires 19 preferably extend through the air intake tube 12 and are preferably connected to a wheat stone bridge circuit (not shown). The circuit preferably includes a microprocessor (not shown) and is integrated into the on-board computer of the vehicle. The circuit is preferably set up such that the resistance of the element 10 can be measured by a diagnostic system, such as the on-board computer of the vehicle, or an outside system, such as a system used at a government emissions testing facility. As more hydrocarbons are trapped in the element 10, the electrical resistance of the element 10 will increase. This value can be measured and processed by the diagnostic system. Exemplary values of resistance measured in volts compared to the percentage of hydrocarbon saturation of the element 10 are shown in the following table Figure 9.

Please delete the drawing located on page 6, between lines 8 and 9.